CONTENTS

SECTION		<u> Page</u>
	ENERAL INFORMATION	
A.	GENERAL	
	1. Name and Type	
	2. Date of Initial Operation	
	3. Location	
	4. Name and Address of Owner	
	5. Facility Contacts	
В.	SITE DESCRIPTION AND OPERATIONS	
	1. Facility Location, Layout and Operations	
	2. Fuel Ullage	
	3. Fuel Storage	
	4. Piping	
	5. Spill Risks	
	6. Chemical Storage Locations	
	7. Permits Required	
	•	
PART II - OI	PERATIONAL PROCEDURES FOR SPILL PREVENTION	
A.	TANK REFUELING OPERATIONS	
DADTIH C	PILL COUNTERMEASURES AND REPORTING	
A.	SPILL AND COUNTERMEASURES AND REPORTING	
В.	SPILL REPORTING	
В. С.		
С. D.	TRA ININGPERS ONA L PRO TEC TIVE EQUIPMENT (PPE)	
D.	PERSONAL PROTECTIVE EQUIPMENT (PPE)	
APPE NDIX		
	TANK III I ACE/EUEI ING I OO AND EUEI JINI O ADING D	DOCEDURE CHECKLICE
A.	TANK ULLAGE/FUELING LOG AND FUEL UNLOADING P	ROCEDU RE CHECKLIST
В.	TANK INSPECTION CHECKLIST	
C.	SPILL REPORTING FORM	
D.	TRAINING OUTLINE AND RECORD FORM	
E.	DIESEL FUEL "MATERIALS SAFETY DATA SHEET"	
F.	SPILL CLEANUP KIT INFORMATION	
G.	FUEL TANK DATA AND INFORMATION SHEET	
Н.	PERMITS PHOTOGRAPHS OF FACH ITY TANK AND DIDING	
I.	PHOTOGRAPHS OF FACILITY, TANK AND PIPING	
J.	FIGURE 1. FIGURE 2 and FIGURE 3 (MAPS & DRAWINGS)	

SPILL PREVENTION, CONTROL, AND COUNTERMEASURES BEST MANAGEMENT PLAN

NOAA

NATIONAL WEATHER SERVICE Missoula RDA Facility Point Six Mountain, Montana

Designated Person Re	sponsible for Spill Prevention (DRO):
Printed Name:	Bruce Bauck - MIC
Signature:	
Date:	
Phone:	(406) 329-4715
determined that	Environmental Compliance Officer (RECO) has reviewed the facility and at an SPCC Plan is not required per 40 CFR 112. This Plan is developed est Management Plan. The determination is based on:
	The facility does not exceed capacity.
<u>X</u>	The facility meets capacity requirements but, a discharge will not reach navigable waterways.
RECO Printed Name:	Thanh Minh Trinh, P. E. Phone: (206) 526-6647
RECO Signature:	
Date:	

PART I - GENERAL INFORMATION

A. GENERAL

This section of the Best Management Practices plan provides general information about the facility.

1. Name:

National Weather Service, Radar Acquisition Facility, Point Six, Montana

2. Date of Initial Operation: 1993— Aboveground Fuel Tank Installed

3. Location

National Weather Service RDA Site

Street: Summit of Point Six Mountain

City: 8 nmi Northeast of the Missoula Airport

State/Zip: Montana 59808 Latitude: 47° - 02' - 28" North Longitude: 113° - 59' - 10" West

Elevation: 7855 ft. MSL

4. Name and phone number of Owner (POC)

National Weather Service Forecast Office 5765 Highway 10 West

Missoula, Montana 59808 Phone: (406) 329- 4715

5. Facility Contacts (Environmental coordinator, Area Safety Representative, Alternate, Focal Point, First Responder)

Name	Title	<u>Telephone Number</u>
David Wheat	Envir. Focal Point	(406) 329-4715
Bruce Bauck	MIC	(406) 329-4715

B. SITE DESCRIPTION AND OPERATIONS

This section describes the site and its operations.

1. Facility Location, Layout, and Operations

The facility is located on the top of Point Six Mountain, Montana at an elevation of 7855 feet above MSL. The mountain top is located approximately 8-Nautical Miles northeast of the parent Weather Forecast Office (WFO) which is located at the USFS Aerial Fire Depot adjacent to the Missoula County Airport. The ground is owned and operated by the U. S. Forest Service but all facilities have been constructed and are owned by the National Weather Service (NWS) and are managed by the MIC (Meteorologist-In-Charge) and his staff at the Missoula WFO. The facility at this site has multiple uses and users. The NWS uses the site for operation of a WSR-88D Radar Data Acquisition (RDA) station. The Federal Bureau of Investigation (FBI) operates remote radio equipment at this site. The US Federal Marshall's have radio equipment at this site. The State of Montana has communications equipment in the building. The site improvements consists a steel quonset type building with a steel tower structure constructed over the building for housing of the radar antenna and radome; a microwave antenna dish is attached to the steel structure; a buried septic tank and a buried water tank along with an electrical grounding grid around the building. Also included on the site is a 12' x 24' enclosed shelter which is used for housing of auxiliary electrical power equipment. The site is located on relatively flat ground with a graveled surface (Appendix J - Figure 1 - Site Location Map). A 2,000-gallon above ground storage tank (AST) supplies diesel fuel to an emergency generator. The AST is located adjacent to the RDA building. The site is not fenced but road access is controlled by the USFS with locked gates along the access road. Access to the site is by 4WD vehicle during the summer months and by "snow-cat" during the period of the year when snow closes the road. The site is unmanned and is visited once or twice each month by technicians for maintenance and repair of equipment.

2. Fuel Ullage

Fuel consumption at this remote site varies according to the generator operation. The generator is tested for one-half hour each week and it is automatically started if the commercial power is interrupted. The generator is sometimes started manually from the WFO in Missoula when weather conditions threaten to interrupt the commercial power. The AST is normally filled about once every two years with approximately 850-gallons of #1 Diesel Fuel. hour for maintenance and testing purposes. Fuel consumption of the generator is approximately 5-gallons per hour. The generator is automatically started if the commercial power is interrupted and will continue to run until the commercial power is restored and stabilized. Under normal conditions, the tank is filled about once every two years.

28 August 2003 2 RDA Missoula, MT

3. Fuel Storage

The AST is a 2,000-gallon, Convault, rectangular shaped, horizontal tank. The AST is located in an unfenced area adjacent to and on the northwest side of the RDA Building. The AST and loading area are not lighted to provide good visual inspection during the hours of darkness. The AST meets the Underwriter's Laboratory Standard 2085 for protected secondary containment. The primary steel tank is encased in a 6-inch thick reinforced concrete secondary containment vault. The AST is installed on a concrete pad. The AST has primary and emergency vents, as well as overfill protection that includes an automatic shutoff valve, an overfill alarm and a 7-gallon overfill bucket.

The AST is provided with an electronic monitoring and alarm system that monitors the interstitial area inside the tank for leakage. The system also monitors for overfill conditions. Should either an overfill or leakage in the interstitial area occur, the system provides both visual and audible alarms.

4. Piping

A 1/2-inch supply line and a 3/8" return line, from the AST, is encased in a 4-inch diameter polyvinyl chloride pipe that exits the AST from it's top and runs to the exterior wall of the RDA shelter. There is a 25-gallon day tank located between the AST and the generator. The day-tank sits on the floor of the generator room.

5. Spill Risk

The AST and associated generator are located on a generally flat mountaintop site. The AST is set on a concrete pad and the slope of the ground away from the AST is in a westerly direction. Small and large spills will be absorbed by the soil immediately around the AST (See APPENDIX J - FIGURE 2). Any required cleanup of contaminated soil will then be accomplished as necessary. Chances of oil getting into any waterway are negligible.

6. Chemical Storage Locations

In addition to the diesel fuel used for the emergency power generator, this facility also stores chemicals (e.g., oils, paint, solvents, antifreeze, cleaning compounds and pesticides) for the operation, maintenance and testing of station facilities and equipment. These are stored/used in the following location(s):

Location: (Example: Flammable locker in UPS Shelter)

- a. Unused oil in original containers Stored in storage room in RDA Shelter.
- b. Paint in spray cans Stored in storage room in RDA Shelter..
- c. Station Cleaning Supplies Stored RDA Building Kitchen.
- d. Lubricants in spray cans Stored in Flammable Locker in the UPS Shelter.
- e. Pesticides Stored in original containers on shelf in UPS shelter.
- f. New Batteries Stored in the UPS Shelter in original containers
- g. New Fluorescent Light tubes Stored in original containers in the RDA Shelter.

7. Permits Required (Copies Attached in Appendix H)

Permits Not required

Part II - OPERATIONAL PROCEDURES FOR SPILL PREVENTION

- **A.** Tank Refueling Operations. This section discusses the procedures that shall be used during unloading of fuel from the tank truck into the AST to prevent spills. This procedure shall be documented every time refueling occurs using the form found in Appendix A. Copies of this form shall be kept for five (5) years.
 - 1. Ensure that the delivery driver understands the road conditions and the problems associated with delivering fuel to this high mountain-top site.
 - 2. The following procedure shall be used **before** fuel unloading: (APPENDIX A)
 - a. The Facility Manager or his designated representative should determine the available capacity (ullage) of the AST by converting the reading on the fuel gauge to gallons (See Appendix A). This ullage is communicated to the fuel supply contractor and marked in the fueling log.
 - b. Move spill containment equipment such as booms, spill barriers or spill kits into the unloading area.
 - c. Block the tank truck wheels.
 - d. Place drip pans under all pump hose fittings (if applicable) before unloading.
 - e. The Facility Manager or his designated representative and the delivery driver ensure the fill nozzle is placed in the appropriate AST appurtenance.
 - **3.** The following procedure shall be used **during** the fuel unloading period: (APPENDIX A)
 - a.. The Facility Manager or his designated representative and the delivery driver shall remain with or near the vehicle and the fuel tanks at all times during unloading. Gauges on the AST and the truck, as well as the fueling nozzle, shall be continuously monitored to ensure the ullage is not exceeded. If the audible high-level alarm sounds, stop the unloading procedure immediately to ensure fuel ullage is not exceeded.

28 August 2003 4 RDA Missoula, MT

- **4.** The following procedure shall be used <u>after</u> fuel unloading is completed: (APPENDIX A)
 - a. Record the amount of fuel transferred to the AST in the log (Appendix A).
 - b. Drain the fill hose and then ensure that all drain valves are closed (if applicable) before removal of the hose from the tank
 - c. Pour any uncontaminated fuel in the drip pans, tank truck containment pool, or spill pipe spill bucket container into the AST (if it has the capacity) or dispose of appropriately.
 - d. Inspect the tank truck before removing the blocks to ensure the lines have been disconnected from the tank.
 - e. Remove the blocks from truck wheels.
 - f. Place a copy of the fuel-unloading checklist in the SPCC BMP.

PART III - SPILL COUNTERMEASURES AND REPORTING

A. SPILL COUNTERMEASURES

This section presents countermeasures to contain, clean up, and mitigate the effects of any oil spills at this site.

A spill containment and cleanup activity will never take precedence over the safety of personnel. No countermeasures will be undertaken until conditions are safe for workers. The **SWIMS** procedure should be implemented as countermeasures:

- **S** Stop the leak and eliminate ignition sources.
 - a. Attempt to seal or some how stop leak if it can be done safely.
 - b. Attempt to divert flow away from any drainage ditch, storm sewer or sanitary sewer with a spill barrier or the contents of spill kit. The spill kit is located in the Generator Building.
 - c. Eliminate all ignition sources in the immediate area.
- **W** Warn others.
 - a. Yell out "SPILL". Inform the person in-charge at your facility.
 - b. Account for all personnel and ensure their safety.
 - c. Notify contacts and emergency response contractor as described in the following section for assistance in control and cleanup.
- **I** Isolate the area.
 - a. Rope off the area
- **M** Minimize your exposure to the spilled material by use of appropriate clothing and protective equipment. If possible, remain upwind of the spilled material.
- **S** Standby to assist the emergency response contractor.

B. SPILL REPORTING (APPENDIX C):

1. General Notification Procedures For All Spills:

Within 24 hours, the responsible person or designee (on this plan title page or in Part 1, A.5.) is directly charged with reporting **all** oil spills that result from facility operations as follows:

- a. In the event of an emergency (e.g., fire, or injury), call 911.
- b. Notify the appropriate persons within your WFO, Regional Office and line office:

National Weather Service:

Mike Jacob, NWS Environmental Compliance Officer (NWSH)

Phone number: (301) 713-1838 Ext. 165, Jmichael.Jacob@NOAA.GOV

Olga Kebis, NWS Safety Officer (NWSH)

Phone number: (301) 713-1838 Ext. 173, Olga.Kebis@NOAA.GOV

Robert Kinsinger, Regional Environmental Compliance Coordinator (ECC) in Western Region Headquarters

Phone number: (801) 524-5138 Ext. 223 Email: robert.kinsinger@noaa.gov

c. NOAA Environmental Compliance and Safety Office Program: E-mail or call your RECO.

WASC Thanh.M.Trinh@NOAA.GOV Phone: (206) 526-6647

d. LECO - U.S. Forest Service

Missoula Ranger District (406) 329-4880

Note: LECO & RECO must determine if Federal or State notification is required and follow up accordingly. (The State of Montana requires notification when a release of petroleum products, into the soil, exceeds 25-gallons **OR** If spilled into the waters of the state, any quantity that would produce a visible oil slick, oil solids, or coat aquatic life, habitat, or property with oil.)

Montana State Disaster and Emergency Services Division (DES)

Phone: (406) 841-3911

2. Cleanup Contractor Notification

An emergency response contractor should also be notified to assist with the clean up if necessary. **NWS/WFO at Missoula** has identified and contacted the following contractors that are available for an emergency response:

Contractor(s)	Phone Number
• Envirocon .	(406) 523-6069
Missoula Rural Fire Department	(406) 549-6172
• U.S. Forest Service, Missoula Ranger District	(406) 329-4880

3. Spill Report

Complete a spill report using the format provided in APPENDIX C. Send this to your RECO with a copy to the Western Region ECC.

C. Training

The Environmental/Safety Focal Point and an alternate should be trained in 1)the refueling procedures, 2)countermeasures, and 3)spill reporting. The alternate should be designated in case the primary person is off site at the time of a spill.

(See APPENDIX D for Training Outline and Training Record form)

D. Personal Protective Equipment (PPE)

- PPE information is specified in the **MSDS**
- Eye protection is accomplished by the use of **Chemical Goggles**
- Hand protection is accomplished by the use of Nitril Gloves
- Other clothing & equipment if contaminated, must be removed and laundered before reuse. Items which cannot be laundered should be discarded.
- Appropriate NIOSH-approved respiratory protection to avoid inhalation of mist or vapors which may be present under hot temperature conditions.

APPENDIX A

TANK ULLAGE/FUELING LOG AND FUEL UNLOADING PROCEDURES CHECKLIST

APPENDIX A-1 TANK ULLAGE AND FUELING LOG

Station N	Na me:				Tank Capacity:	gallons
Date	Initials	Gauge Reading	Initial Volume of Fuel in Tank ^a (Gallons)	Available Capacity or Ullage ^b (Gallons)	Quantity Added (Gallons)	Comments

Notes:

- a. From gage reading
- b. Available capacity = tank capacity initial volume of fuel in tank

APPENDIX A-2

FUEL UNLOADING PROCEDURE CHECKLIST

Date:		Tank:	
NWS	Representative:	Supplier:	

√			
	ITEM	DESCRIPTION	COMMENTS
The	following six iter	ns must be completed <u>prior</u> to fuel unloading:	
	1	Move spill containment equipment, such as booms or spill barriers, into the unloading area.	
	2	Ensure the audible high-level alarm system and automatic shutoff valve are functioning properly (if applicable).	
	3	Determine the available capacity (ullage) of the tank by converting the reading on the fuel gauge to gallons (see Appendix A-1). The ullage should then be marked in the fueling log and communicated to the tank truck unloading contractor.	
	4	Block the wheels of the tank truck.	
	5	Place drip pans under all pump hose fittings (if applicable) after the hose is hooked up to the tank and before unloading.	
	6	Ensure the fill nozzle is placed in the appropriate tank appurtenance.	
Dur	ing unloading	<u> </u>	
	7	Ensure that the NWS representative and the tank truck operator remain with the vehicle at all times during unloading.	
	8	Monitor the gauges on the tank and the truck continuously to ensure the ullage is not exceeded.	
Afte	r fuel unloading	is completed	
	9	Record the amount of fuel unloaded in the log (Appendix A-1).	
	10	Before removing the fill hose from the tank, ensure that it is drained and that all drain valves are closed (if applicable).	
	11	Any fuel accumulated in the drip pans or spill container on the fill pipe should be poured into the tank (if it has the capacity) or disposed of appropriately (describe how it was disposed of, if applicable).	
	12	Inspect the tank truck before removing the blocks to ensure the lines have been disconnected from the tank.	
	13	Remove the blocks from the tank truck wheels.	
	14	Place a copy of this fuel unloading procedure checklist in the Best Management Plan.	

APPENDIX B

TANK INSPECTION CHECKLIST

MONTHLY INSPECTION CHECKLIST					
Date of Inspection: Tank Name or No.:					
Date of Last Inspection:	Inspected by:	Signatu	re:		
A. TANKS		YES	NO	NOTES	
1. Are tanks marked properly?					
2. Is area atop and around tank and within berm free of com	abustible materials and debris? stains?				
3. Is there any oil on the ground, concrete, or asphalt around	I the tank?				
4. Are there any visible cracks or indications of corrosion or peeling or rust spots)?	n the tank, at fittings, joints, or seals (such as paint				
5. Are there any raised spots, dents, or cracks on the tank?					
6. Does it appear that the foundation has shifted or settled?					
7. Is the fuel gauge working properly?					
8. Are all vents clear so they may properly operate?					
9. If rainwater is present within containment, does capacity	remain for spill c ontrol, if app licable?				
B. PIPING					
1. Is there any oil on the outside of or under any abovegroun	nd piping, hoses, fittings, or valves?				
2. Are aboveground piping hoses, fittings, or valves in good	d working condition?				
C. SECURITY/SAFETY/SPILL COUNTERMEASURE	s				
1. Are lights working properly to detect a spill at night?					
2. Are all locks in the 'lock" position?					
3. Are all warning si gns properly posted and readable?					
4. Are vehicle guard posts in place and properly secured (if	4. Are vehicle guard posts in place and properly secured (if applicable)?				
5. Are spill kits easily accessible, protected from the weather	r, complete, and replenished if necessary?				
Corrective Actions Required:					

	ANNUAL INSPECTION CHECK LIST (Page 1 of 1)					
Date	Date of Inspection: Tank Name or No.:					
Date	of Last Inspection:	Inspected by:	Inspected by:			
		Signature:				
Α.	MONT HLY CHECKLIST		YES	NO	NOTES	
1.	Have monthly inspection checklists bee	n completed?				
В.	TANKS					
1.	Are all alarms and automatic shutoff de	vices working properly?				
2.	2. Is interstitial monitor functioning properly (if applicable)?					
C.	OTHER					
1.	1.					
Corrective Actions Required:						

APPENDIX C SPILL REPORTING

APPENDIX C

SPILL REPORTING

1. GENERAL							
Name of Facility:		Address:					
Completed By:		Organization:					
Position:		Phone:					
2. SPILL INFORMATION							
Date:		Time:					
Location at Facility:		Quantity:					
Substance Spilled:		Other:					
3. OUTSIDE NOTIFICATIONS: (Insert tele							
Agencies		he external regulatory agency tative name when making the calls.	Date & Time				
Call 911 for emergency assistance							
Regional Management (see Part III Section B subparagraph 1.b) (801) 524-5138 Ext.223							
Line Office Environmental Compliance							
Officer (see Part III Sectin B subparagraph 1b) (301) 713-1838 Ext 165 or Ext 173							
NOAA, RECO (see Part III Section B							
subparagraph 1.c) (205) 526-6647 EPA National Response Center							
or U.S. Coast Guard: (800) 424-8802							
State of Montana Disaster and Emergency							
Services Division Phone (406) 841-3911 LECO — U.S. Forest Service-Missoula							
Ranger District (406) 424-8802							
4. INFORMATION ON SOURCE AND CAU	SE		•				
5. DESCRIPTION OF ENVIRONMENTAL	DAMAGE						
6. CLEANUP ACTION(S) TAKEN							
CELLITOT TOTTONIO, TIMEN							
7. CORRECTIVE ACTION(S) TO PREVENT FUTURE SPILLS							

Note: All information must be filled in. If something is unknown, write "unknown".

Copies must be sent, preferably by e-mail, to the NWS/NOAA personnel listed above.

APPENDIX D TRAINING OUTLINE & TRAINING RECORD

APPENDIX D-1

TRAINING OUTLINE: SPILL PREVENTION, CONTROL AND COUNTERMEASURES

Training will be provided for facility personnel at the following times:

- 1. System startup or whenever new equipment is installed
- 2. Within the first week of employment for new personnel
- 3. Annually

The training will include complete instruction in the elements of the facility's Spill Prevention, Control, and Countermeasure plan and will include the following:

- 1. Pollution control laws, rules, and regulations including a summary of Title 40 of the Code of Federal Regulations Part 112 "Oil Pollution Prevention" (see Attachment)
- 2. Fuel Storage System
 - A. Purpose and application of the following system elements:
 - 1. Tanks
 - 2. Piping
 - 3. Pumps
 - 4. Accessory equipment
 - 5. Electronic monitors
 - B. Operation, maintenance, and inspection of system elements
- 3. Spill Prevention
 - A. Potential spill sources
 - B. Spill flow direction and impact on navigable waters
 - C. Procedures to prevent spills, especially during fuel unloading
- 4. Spill Control
 - A. Secondary containment
 - B. Safety valves
 - C. Pump and equipment shutoff switches
 - D. Use of catch basin inlet covers or other diversionary devices
- 5. Spill Countermeasures
 - A. Location and use of emergency phone numbers
 - B. Location and use of fire extinguishers
 - C. Location and use of spill cleanup kit
 - D. Stopping the leak

APPENDIX D-2

TRAINING REPORT FORM

DATE OF TRAINING	EMPLOYEE TRAINED	TRAINER	REMARKS

APPENDIX E MATERIALS SAFETY DATA SHEET ATTACHMENT

APPENDIX F SPILL CLEANUP KIT INFORMATION ATTACHMENT

APPENDIX G FUEL TANK DATA AND INFORMATION

APPENDIX H PERMITS

APPENDIX I PHOTOGRAPHS OF FACILITY TANKS AND PIPING

APPENDIX J (MAPS & DRAWINGS)

FIGURE 1:Site Location Map

FIGURE 2:Topographic Map & Site Layout

FIGURE 3: Site Piping Diagram